

Two Species of the Genus *Theridion* (Araneae: Theridiidae) from Japan

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吉田 哉¹⁾: 日本産ヒメグモ属 (クモ目: ヒメグモ科) の2種

Abstract A new species of the family Theridiidae is described from Japan, under the name *Theridion nojimai* sp. nov. *Theridion ogasawarense* Yoshida, 1993 is newly synonymized with *T. melanostictum* O. Pickard-Cambridge, 1876.

In this paper, I report two species of the genus *Theridion* belonging to the family Theridiidae from Japan. One of them is described as a new species. The other one, *Theridion melanostictum* O. Pickard-Cambridge, 1876, is a senior synonym of *T. ogasawarense* Yoshida, 1993, which was recorded from Haha-jima Island of the Bonin Islands, Japan.

The holotype and allotype of the new species described in this paper are deposited in the collection of the National Science Museum (Natural History), Tokyo, and the paratype is preserved in my private collection.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye(s); AME, anterior median eye(s); MOA, median ocular area; PLE, posterior lateral eye(s); PME, posterior median eye(s).

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Theridion nojimai sp. nov. (Figs. 1-4)

Female (holotype). Total length 1.87 mm. Carapace length 0.61 mm; width 0.58 mm. Abdomen length 1.32 mm; width 1.24 mm; height 1.32 mm. First leg: femur 0.81 mm; patella & tibia 0.81 mm; metatarsus 0.63 mm; tarsus 0.34 mm. Second patella & tibia 0.58 mm; third patella & tibia 0.47 mm; fourth patella & tibia 0.66 mm.

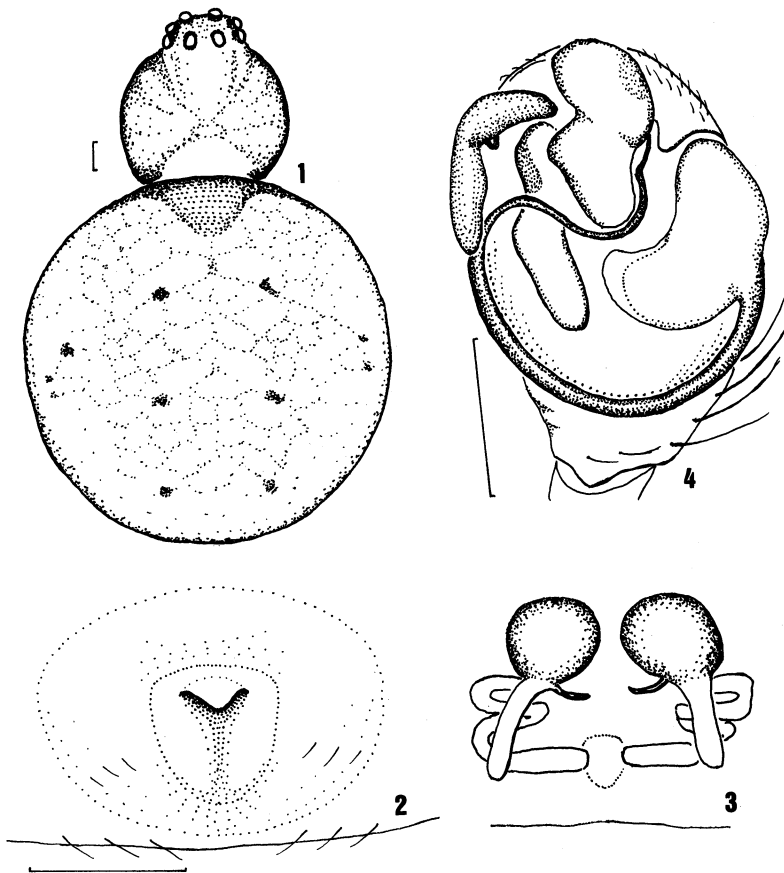
Carapace oval. Eyes almost equal in size. AME their diameter apart and a half from ALE. PME their diameter apart and three-fourths from PLE. MOA, anterior width: posterior width: length=13: 13: 12 in the ratio. Leg formula 1, 4, 2, 3. Abdomen almost spherical. Genital organ as shown in Figs. 2-3: ducts thin and long, twisting.

Cephalothorax blackish brown. Legs pale yellow with black flecks on the follow-

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Figs. 1-4. *Theridion nojimai* sp. nov. — 1, Female carapace and abdomen, dorsal view; 2, epigynum, ventral view; 3, female genitalia, dorsal view; 4, male palpus, ventral view. (Scales: 0.1 mm.)

ing parts: ventral surfaces near distal ends of first, second and fourth femora; distal ends of first and second femora, third and fourth patellae, and all metatarsi and tarsi; ventro-median parts of first metatarsi. Coxae dusky. First and second patellae dorsally dusky. Dorsum of the abdomen grayish white with three pairs of small spots; venter blackish brown with large white pigment between epigynum and spinnerets.

Male (allotype). Total length 1.29 mm. Carapace length 0.58 mm; width 0.5 mm. Abdomen length 0.74 mm; width 0.61 mm; height 0.66 mm. First leg: femur 0.74 mm; patella & tibia 0.81 mm; metatarsus 0.63 mm; tarsus 0.32 mm. Second patella & tibia 0.57 mm; third patella & tibia 0.34 mm; fourth patella & tibia 0.57 mm.

Eyes almost equal in size. AME four-fifths their diameter apart and one-fifth from ALE. PME two-fifths their diameter apart and three-fifths from PLE. MOA, anterior width: posterior width: length = 12: 11: 9 in the ratio. Legs pale yellow with black flecks on the following parts: ventral surface near distal ends of first, second and fourth femora;

distal parts of all patellae, metatarsi and tarsi; ventro-median parts of first metatarsi. Palpus as shown in Fig. 4: embolus thin and long, clockwise in the base and anticlockwise in the tip.

The other characters as same as the female holotype.

Type series. Holotype: ♀, Numa, Tamano-shi, Okayama Prefecture, Japan, 1-VII-1995, K. Nojima leg. Allotype: ♂, Nishikanzaki, Maizuru-shi, Kyoto Prefecture, Japan, 3-VIII-1998, K. Nojima leg. Paratype: 1 ♀, Iotorishima Island, Okinawa Prefecture, Japan, 10-V-1997, T. Sasaki leg.

Distribution. Japan: Honshu (Okayama and Kyoto Prefectures) and the Ryukyus (Iotorishima Island).

Remarks. This species resembles *Theridion adamsoni* Berland, 1934, (cf. Zhu 1998, p. 162, fig. 101) but is distinguished from the latter by the small size, the female genitalia with thin and long ducts and the male palpal embolus with the tip being anticlockwise.

Etymology. The specific name is after Mr. Kouichi Nojima, Osaka.

***Theridion melanostictum* O. Pickard-Cambridge, 1876**

Theridion melanostictum O. Pickard-Cambridge, 1876, p. 570; Levy, 1985, p. 114; Zhu, 1998, p. 148, fig. 90.

Theridion miami Levi, 1980, p. 336, figs. 3-9.

Theridion ogasawarense Yoshida, 1993, p. 111, figs. 6-9. **Syn. nov.**

Description. See Yoshida (1993, p. 111, figs. 6-9).

Distribution. Japan: Haha-jima Island, the Bonin Islands. China and wide tropical area of the world.

Remarks. *Theridion ogasawarense* Yoshida, 1993 was described by myself from Haha-jima Island, the Bonin (Ogasawara) Islands, Japan, but is recognized as a junior synonym of this species.

摘 要

日本産のヒメグモ科ヒメグモ属の2種を報告した。このうち1種 *Theridion nojimai* sp. nov. (ノジマヒメグモ, 新称) を新種として記載した。また、小笠原母島から記録された *Theridion ogasawarense* Yoshida, 1993 (オガサワラヒメグモ) を *T. melanostictum* O. Pickard-Cambridge, 1876 の新参シノニムとした。

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